F F F F F F F F F F F F F F F F F F F	00000000 00000000 00000000		RRRRR	RRRRRRR RRRRRRR RRRRRRR	}	RRRRR	RRRRRRR RRRRRRR RRRRRRRR			
FFF	000	000	RRR		RRR	RRR	R	RR	TTT	ίίί
FFF		000	RRR		RRR	RRR		RR	İTT	<i>ו</i> ווֹ
FFF		000	RRR		RRR	RRR		RR	TTT	LLL
FFF		000	RRR		RRR	RRR		RR	TTT	LLL
FFF		000	RRR		RRR	RRR		RR	TTT	ÜÜ
FFF		000	RRR		RRR	RRR	R	RR	TTT	LLL
FFFFFFFFFF		000	RRRRR	RRRRRRR	}		RRRRRRRR		TTT	LLL
FFFFFFFFFF		000	RRRRR	RRRRRRR	}	RRRRR	RRRRRRRR		TTT	LLL
FFFFFFFFFF		000	RRRRR	RRRRRRR	}	RRRRR	RRRRRRRR		TTT	LLL
FFF		000	RRR	RRR		RRR	RRR		TTT	LLL
FFF		000	RRR	RRR		RRR	RRR		TTT	LLL
FFF		000	RRR	RRR		RRR	RRR		TTT	LLL
FFF		000	RRR	RRR	}	RRR	RRR		TTT	LLL
FFF	000	000	RRR	RRR	}	RRR	RRR		TTT	LLL
FFF		000	RRR	RRR	<u>}</u>	RRR	RRR		TTT	LLL
FFF	00000000		RRR		RRR	RRR	R	RR	TTT	LLLLLLLLLLLLLL
FFF	00000000		RRR		RRR	RRR	R	RR	TTT	LLLLLLLLLLLLLL
FFH	00000000		RRR		RRR	RRR	R	RR	TTT	LLLLLLLLLLLLLLL

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	NN		000000 00 00 00 00	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
		\$				

F

KK KK KK

KK KK

KK KK

1Ó

Page 1 (1)

```
0001
0002
0004
       1 BEGIN
0005
0006
8000
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
       1 1
0020
       1 !*
0021
0022
0024
0026
0027
0028
0029
0030
0031
0032
0033
0034
0035
0036
0037
0038
0039
0040
0041
0042
0044
0045
0046
0047
0048
```

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: FORTRAN Support Library - User Callable

ABSTRACT:

This module implements the FORTRAN UNLOCK statement.

ENVIRONMENT: User access mode; mixture of AST level or not.

AUTHOR: Steven B. Lionel, CREATION DATE: 17-May-1979

MODIFIED BY:

1-001 - Original. SBL 17-May-1979
1-002 - Move the BUILTIN ACTUALCOUNT into the routine, since the next BLISS compiler will require it to be there. While we are here, clean up the source text a little. Note that this edit does not change the code. JBS 22-Aug-1980

1 !<BLF/PAGE>

Page

FORSUNLOCK

16-Sep-1984 00:56:44 14-Sep-1984 12:32:59

VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FORUNLOCK.832;1 Page 3 (2)

: 109 : 110 : 111 0858 1 ! 0859 1 DECLARE_PSECTS (FOR); 0860 1

! Declare PSECTS for FOR\$ facility

į

```
N 3
FORSUNLOCK
1-002
                                                                           16-Sep-1984 00:56:44
14-Sep-1984 12:32:59
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                       [FORRTL.SRC]FORUNLOCK.B32:1
                   0861
                            GLOBAL ROUTINE FORSUNLOCK (UNIT, ERR EQL) =
   114
                  0862
0863
   115
   116
117
                   0864
                              FUNCTIONAL DESCRIPTION:
                   0865
   118
                   0866
                                     Call CB_PUSH to get a control block for this UNIT.
                   0867
   119
                                     Do an RMS SFREE on the unit.
   1201
1223
1223
1226
1228
1233
1333
1335
1335
                   0868
                                     Return I/O system to previous state.
                   0869
                  0870
                              FORMAL PARAMETERS:
                  0871
                  0872
0873
                                     UNIT.rlu.y
                                                                  Unit number (call by value)
                                     ERR_EQL.rl.v
                                                                  If 1, return IOSTAT value
                  0874
0875
                                                                  If omitted or zero, signal all errors
                  0876
                              IMPLICIT INPUTS:
                  0877
                  0878
                                     LUB$V_OPENED
                                                                 1 if file previously opened
                  0879
                                     LUB$V_NOTSEQORG
                                                                 1 if file not sequential organization
                  0880
                  0881
                              IMPLICIT OUTPUTS:
                  0882
0883
   136
137
                  0884
                              ROUTINE VALUE:
                  0885
   138
139
                  0886
                                     An IOSTAT value.
                  0887
   140
                  8880
                              SIDE EFFECTS:
   141
                  0889
   142 143
                  0890
                                     All locked records on the unit are unlocked. If the unit is
                  0891
                                     not open, or is not relative or indexed organization, the error
                  0892
0893
   144
                                     FORSUNLERR - UNLOCK error
   145
                                     is signalled.
                  0894
   146
   147
                  0895
                  0896
0897
   148
   149
                                BEGIN
   150
                  0898
   151
                  0899
                                GLOBAL REGISTER
   152
153
                  0900
                                     CCB = K_CCB_REG : REF BLOCK [, BYTE];
                  0901
   154
155
                  0902
                                BUILTIN
                                     ACTUAL COUNT;
   156
157
                  0904
                  0905
                                LOCAL
                                     L_UNWIND ACTION : VOLATILE,
L_ERR_EQE_PRES : VOLATILE,
STATUS;
   158
                  0906
   159
                  0907
   160
                  0908
   161
                  0909
   162
163
                  0910
                                ENABLE
                  0911
                                     FOR$$10STAT_HND (L_UNWIND_ACTION, L_ERR_EQL_PRES);
                  0912
   164
   165
                  0914
                            ! Set up unwind action and flag if ERR= or IOSTAT was present.
   166
                  0915
   167
                  0916
   168
                                 L_UNWIND_ACTION = FOR$K_UNWINDNOP;
   169
```

Page

(3)

```
16-Sep-1984 00:56:44
14-Sep-1984 12:32:59
FORSUNLOCK
                                                                                                       VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FORUNLOCK.B32;1
                                                                                                                                                  Page
1-002
   170
171
172
173
174
175
176
                   0918
                                 IF (ACTUALCOUNT () GTR 1) THEN L_ERR_EQL_PRES = .ERR_EQL_ELSE L_ERR_EQL_PRES = 0;
                   0919
                  0920
0921
0922
0923
                              Get a LUB for this unit.
                              On return, CCB points to the current control block.
                   0924
                                 FOR$$CB_PUSH (.UNIT, LUB$K_LUN_MIN);
                  Ŏ923
   178
                              Error action is now to pop the LUB.
   179
   180
                  0928
                                 L_UNWIND_ACTION = FOR$K_UNWINDPOP;
   181
182
183
184
                  0929
                  0930
                              If the file is not open, or is not relative or indexed organization,
                   0931
                              signal error FOR$_UNLERŘ.
                  0932
   185
   186
                  0934
                                 IF (( NOT .CCB [LUB$v_OPENED]) OR ( NOT .CCB [LUB$v_NOTSEQORG])) THEN FOR$$SIGNAL_STO (FOR$k_UNLERR);
   187
                   0935
   188
                  0936
   189
                  0937
                              Now unlock the file. Signal errors except for RMSS_RNL which we
   190
                  0938
                              choose to ignore (no records were locked).
   191
                  0939
   192
193
                  0940
                  0941
                                 IF ( NOT $FREE (RAB = .CCB))
                  0942
   194
                                 THEN
   195
                                     BEGIN
   196
                  0944
   197
                  0945
                                     WHILE (.CCB [RAB$L_STS] EQL RMS$_RSA) DO
   198
                  0946
                                          BEGIN
   199
                  0947
                                          $WAIT (RAB = .CCB);
   200
                  0948
                                          SFREE (RAB = .CCB)
   201
                  0949
                                          END:
   202
203
204
205
                  0950
                  0951
                                     IF (( NOT .CCB [RAB$L_STS]) AND (.CCB [RAB$L_STS] NEQU RMS$_RNL))
                  0952
                  0953
                                          FOR$$SIGNAL_STO (FOR$K_UNLERR);
   206
207
                  0954
                  0955
                                     END:
   508
508
                  0956
                  0957
   210
211
212
213
214
215
216
217
                  0958
                              Return the I/O system to its last state.
                  0959
                  0960
                                FOR$$(B_POP ();
                  0961
                  0962
0963
                              Return a success IOSTAT code
                  0964
                                 RETURN 0:
                  0965
                                 END:
                                                                                    ! of routine FORSUNLOCK
                                                                                       .TITLE
                                                                                                FORSUNLOCK
                                                                                                11-002
                                                                                       . IDENT
                                                                                       .EXTRN
                                                                                                FOR$$IOSTAT_HND
                                                                                               FORSSSIGNAL STO
FORSSCB_PUSH, FORSSCB_POP
SYSSFREE, SYSSWAIT
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                       .EXTRN
```

					1	C 4 6-Sep-19 4-Sep-19	84 00:56 84 12:32	44 VAX-11 Bliss-32 V4.0- 59 [FORRTL.SRC]FORUNLOCK	742 Page 6 .832;1 (3)
							.PSECT	_FOR\$CODE,NOWRT, SHR, PIC	,2
		54 53 5E	00000000G 00000000G	081C 00 9E 00 9E 04 C2 7E D4 AE D4	00000 00002 00009 00010 00013		.ENTRY MOVAB MOVAB SUBL2 CLRL	FORSUNLOCK, Save R2,R3,R4,R SYS\$FREE, R4 FOR\$\$SIGNAL_STO, R3 #4, SP	11 : 0861 : 0897
	04	6D AE 01	004 006D	01 DO	00015 00018 00010 00021 00024		CLRL MOVAL MOVL CMPB BLEQU	#4, SP L_ERR_EQL_PRES L_UNWIND_ACTION 8\$, (FP) #1, L_UNWIND_ACTION (AP), #1	0916 0918
		6E	08	AC DO 02 11 6E D4	00026 0002A 0002C 0002E	1\$: 2\$:	MOVL BRB CLRL CLRL	ERR_EQL, L_ERR_EQL_PRES 2\$ L_ERR_EQL_PRES RO	. 0924
		52	00000000G	AC DO 00 16 AE D4	00030 00034 0003A		MOVL JSB CLRL	UNIT, R2 FOR\$\$CB_PUSH L_UNWIND_ACTION	. 0924 . 0928
05	A 1	05 AB 63	FC	03 E0 38 DD 01 FB	0003D 00041 00046 00048		BLBC BBS PUSHL CALLS	-4(CCB), 3\$ #3, -95(CCB), 4\$ #56 #1, FOR\$\$SIGNAL_STO	: 0934
	000182DA	64 2D 8F	08	AB D1	0004B 0004D 00050 00053		PUSHL CALLS BLBS CMPL	CCB #1, SYS\$FREE RO, 7\$ 8(CCB), #99034	0941
	00000000G	00		5B DD 01 FB 5B DD	0005B 0005D 0005F 00066		BNEQ PUSHL CALLS PUSHL	6\$ CCB #1, SYS\$WAIT CCB	0947 0948
	000181A0	64 0f 8f	08 08	01 FB E6 11 AB E8	00068 0006B 0006D	6\$:	CALLS BRB BLBS CMPL	#1, SYS\$FREE 5\$ 8(CCB), 7\$ 8(CCB), #98720	0951
		63	000000006	38 DD 01 FB 00 16 50 D4	00071 00079 0007B 0007D 00080 00086	7\$:	BEQL PUSHL CALLS JSB CLRL	7\$ #56 #1, FOR\$\$SIGNAL_STO FOR\$\$CB_POP R0	0953 0960 0964
		50 50	08 04 F 8 F C	0000 AC DO AO DO AO 9F AO 9F	00088 00089 0008B 0008F 00093	8\$:	RET.WORD MOVL MOVL PUSHAB PUSHAB	Save nothing 8(AP), RO 4(RO), RO L_ERR_EQL_PRES L_UNWIND_ACTION #2 SP	: 0965 : 0897 :
	000000006	7E 00	04	02 DD 5E DD AC 7D	00099 0009B 0009D 000A1 000A8		PUSHL PUSHL MOVQ CALLS RE ⁷	#2 SP 4(AP), -(SP) #3, FOR\$\$IOSTAT_HND	

; Routine Size: 169 bytes. Routine Base: _FOR\$CODE + 0000

; 218 0966 1

Page 7 (3)

5.

D 4 16-Sep-1984 00:56:44 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:59 [FORRTL.SRC]FORUNLOCK.B32;1

. of module FORSUNLOCK

PSECT SUMMARY

Name Bytes

0967

0968 0969

1 END

0 ELUDOM

Attributes

_FOR\$CODE

FORSUNLOCK

219 220 221

1-002

169 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$\frac{1}{2}\$ \frac{1}{2}\$ \fra

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:FORUNLOCK/OBJ=OBJ\$:FORUNLOCK MSRC\$:FORUNLOCK/UPDATE=(ENH\$:FORUNLOCK

Size: 159 code + 0 data bytes Run Time: 00:09.0

Run Time: 00:09.0 Elapsed Time: 00:29.9 Lines/CPU Min: 6460 Lexemes/CPU-Min: 35280 Memory Used: 110 pages Compilation Complete 0185 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

